### (12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

# (19) World Intellectual Property Organization International Bureau

4 August 2005 (04.08.2005)

(43) International Publication Date





**PCT** 

## (10) International Publication Number WO 2005/071404 A1

(51) International Patent Classification<sup>7</sup>:

G01N 33/48

(21) International Application Number:

PCT/AU2005/000077

(22) International Filing Date: 24 January 2005 (24.01.2005)

(25) Filing Language:

English

(26) Publication Language:

English

(30) Priority Data:

2004900340 60/540,662 23 January 2004 (23.01.2004) AU 29 January 2004 (29.01.2004) US

(71) Applicant (for all designated States except US): GARVAN INSTITUTE OF MEDICAL RESEARCH [AU/AU]; C/-St Vincent's Hospital, 384 Victoria Street, Darlinghurst, New South Wales 2010 (AU). (72) Inventor; and

(75) Inventor/Applicant (for US only): KOHONEN-COR-ISH, Maija [AU/AU]; 6 Fleming Street, Northwood, New South Wales 2066 (AU).

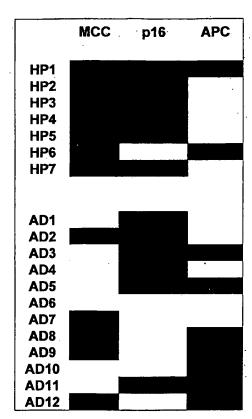
(74) Agent: FB RICE & CO; 605 Darling Street, Balmain, New South Wales 2041 (AU).

(81) Designated States (unless otherwise indicated, for every kind of national protection available): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.

(84) Designated States (unless otherwise indicated, for every kind of regional protection available): ARIPO (BW, GH,

[Continued on next page]

(54) Title: METHODS OF DIAGNOSING COLORECTAL CANCER AND REAGENTS THEREFOR



(57) Abstract: The present invention relates to assays for diagnosing colorectal cancer or a predisposition therefor or the neoplastic potential of a colorectal polyp wherein hypermethylation of an *MCC* gene promoter is determined. The invention provides various multianalyte diagnostic tests and reagents for performing these diagnostic/predictive assays.

### 

GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

### Published:

with international search report

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.